(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 12 May 2005 (12.05.2005)

PCT

(10) International Publication Number WO 2005/042937 A1

(51) International Patent Classification7:

F01N 3/20

(21) International Application Number:

PCT/EP2003/011598

(22) International Filing Date: 20 October 2003 (20.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): HON-EYWELL INTERNATIONAL INC. [US/US]; Columbia Road 101, Morristown, NJ 07962 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WOODCOCK, Troy [US/FR]; c/o Honeywell Garrett, B.P. 19 - Z.I. Route d'Oncourt, F-88150 Thaon-Les-Vosges (FR). KING-COX, Charles [GB/FR]; c/o Honeywell Garrett, B.P. 19 - Z.I. Route d'Oncourt, F-88150 Thaon-les-Vosges (FR). MIDDLEMASS, Chris [US/US]; c/o Honeywell Garrett, 33533 W. 12 Mile Road, Suite 150, Farmington Hills, MI 48331 (US). MASSART, Edouard [FR/FR]; c/o Honeywell Garrett, B.P. 19 - Z.I. Route d'Oncourt, F-88150 Thaos-les-Vosges (FR).

(74) Agent: LESON, Thomas, Johannes, Alois; TBK-Patent, Bavariaring 4-6, 80336 München (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

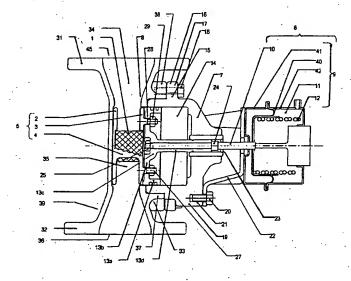
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCI Gazette.

(54) Title: VARIABLE POSITION CATALYST



(57) Abstract: A variable position catalyst comprises a catalyst housing (7) accommodating a catalyst body (1) and an actuator member (9) for moving the catalyst body (1) with respect to the catalyst housing (7) such that the catalyst body (1) can be moved to an active catalyst position (35) or to an inactive catalyst position (14). The variable position catalyst is incorporated in the exhaust line of an internal combustion engine upstream of a turbocharger. The variable position catalyst can be controlled such that the catalyst body (1) is moved to the active catalyst position (35) when the engine is in a predetermined first operation state, and the catalyst body is moved to the inactive catalyst position (14) when the engine is in a predetermined second operation state.

Best Available Copy

2005/042037